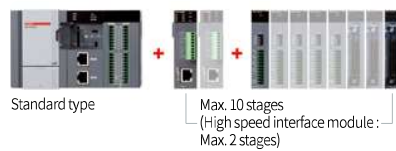**PLC**

XGB Series | Compact and Block Type PLC
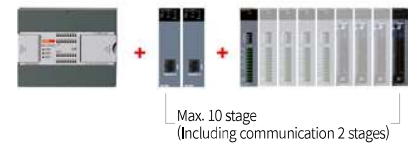

Features

XGB-U (XBC / XEC-U)

- Max. 60ns/step processing speed
- Max. 2 high speed backplane extension modules
- Max. 10 expansion modules
- Max. 352 I/O points
- 32Ksteps/384KB program capacity
- Line-up : Standard, Built-in analog, Built-in positioning
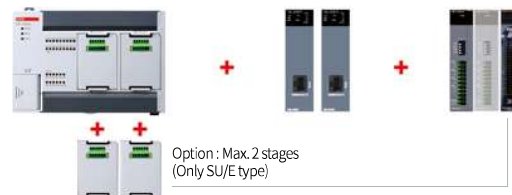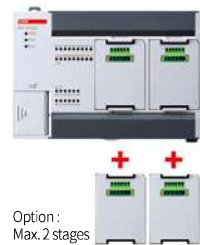
* Built in Ethernet, SD card

XBC / XEC-U

Standard type

Max. 10 stages
(High speed interface module : Max. 2 stages)

XBC / XEC-H

Max. 10 stage
(Including communication 2 stages)

XBC / XEC-SU

- Max. 94ns/step processing speed
- Max. 7 expansion modules
- Max. 284 I/O points
- 15Ksteps/200KB program capacity

Option : Max. 2 stages
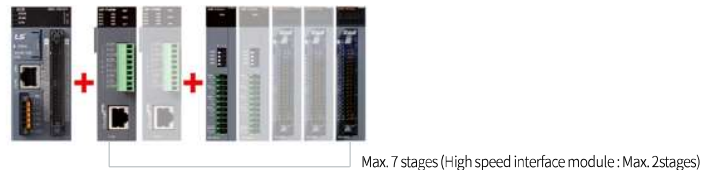(Only SU/E type)

Max. 7 stage(Expansion + Option),
Communication Max. 2 stages

XBC / XEC-E

- Max. 240ns/step processing speed
- Max. 2 expansion modules
- Max. 38 I/O points
- 4Ksteps/50KB program capacity

Option :
Max. 2 stages

Option Modules	
XBO-M2MB	Memory / Program READ/WRITE
XBO-RTCA	RTC (Real time clock), Battery
XBO-DC04A	DC 24V, Input 4 points
XBO-TN04A	TR (Sink), Output 4 points
XBO-AD02A	Voltage/Current, Input 2ch
XBO-DA02A	Voltage/Current, Output 2ch
XBO-AH02A	Voltage/Current, Input 1ch / Voltage/Current, Output 1ch
XBO-RD01A	RTD (Resistance temperature detector), Input 1ch
XBO-TC02A	TC (Thermo couple), Input 2ch

XBM / XEM-H2, HP

- Max. 40ns/step instruction times
- 64Kstep built-in program memory
- Max. 256 I/O points
- Expandability : 7 cards
  (Compatible with all XGB cards)

Max. 7 stages (High speed interface module : Max. 2stages)

XBM-S

- Max. 160ns/step processing speed
- Max. 7 expansion modules
- Max. 256 I/O points
- 10Ksteps program capacity

Max. 7 stage (Communicaion Max. 2 stages)

Product List

Block Type Unit (U)

Model	Specification
XBC/XEC-DN(P)32U	AC 110-220V, 16points DC24V input, 16points transistor sink(Source) type output
XBC/XEC-DR28U	AC 110-220V, 16points DC24V input, 12points relay output
XBC/XEC-DN(P)32UP	AC 110-220V, 16points DC24V input, 16points transistor sink(Source) type output, 4 axes built-in positioning
XBC/XEC-DR28UP	AC 110-220V, 16points DC24V input, 12points relay output, 4 axes built-in positioning
XBC/XEC-DN(P)32UA	AC 110-220V, DC24V input, 16points transistor sink(Source) type output, 8 channel built-in analog
XBC/XEC-DR28UA	AC 110-220V, DC24V input, 12points relay output, 8 channel built-in analog
XBC/XEC-DN(P)32U/DC	DC 24V, 16points DC24V input, 16points transistor sink(Source) type output
XBC/XEC-DR28U/DC	DC 24V, 16points DC24V input, 12points relay output
XBC/XEC-DN(P)32UP/DC	DC 24V, 16points DC24V input, 16points transistor sink(Source) type output, 4 axes built-in positioning
XBC/XEC-DR28UP/DC	DC 24V, 16points DC24V input, 12points relay output, 4 axes built-in positioning
XBC/XEC-DN(P)32UA/DC	DC 24V, DC24V input, 16points transistor sink(Source) type output, 8 channel built-in analog
XBC/XEC-DR28UA/DC	DC 24V, DC24V input, 12points relay output, 8 channel built-in analog

Block Type Unit (High Performance)

Model	Specification
XBC/XEC-DR32H	AC 100-240V, DC24 input 16 pts, Relay output 16 pts
XBC/XEC-DR64H	AC 100-240V, DC24 input 32 pts, Relay output 32 pts
XBC/XEC-DN32H	AC 100-240V, DC24 input 16 pts, Tr. output 16 pts (Sink)
XBC/XEC-DN64H	AC 100-240V, DC24 input 32 pts, Tr. output 32 pts (Sink)
XEC-DP32H	AC 100-240V, DC24 input 16 pts, Tr. output 16 pts (Source)
XEC-DP64H	AC 100-240V, DC24 input 32 pts, Tr. output 32 pts (Source)
XBC-DR32H/DC	DC 24V, DC24 input 16 pts, Relay output 16 pts
XBC-DR64H/DC	DC 24V, DC24 input 32 pts, Relay output 32 pts
XBC-DN32H/DC	DC 24V, DC24 input 16 pts, Tr. output 16 pts (Sink)
XBC-DN64H/DC	DC 24V, DC24 input 32 pts, Tr. output 32 pts (Sink)
XEC-DR32H/D1	DC 12/24V, DC12/24 input 16 pts, Relay output 16 pts
XEC-DR64H/D1	DC 12/24V, DC12/24 input 32 pts, Relay output 32 pts

Block Type Unit (Standard)

Model	Specification
XBC/XEC-DR20SU	AC 100-240, DC24V input 12 points, Relay output 8 points
XBC/XEC-DR30SU	AC 100-240, DC24V input 18 points, Relay output 12 points
XBC/XEC-DR40SU	AC 100-240, DC24V input 24 points, Relay output 16 points
XBC/XEC-DR60SU	AC 100-240, DC24V input 36 points, Relay output 24 points
XBC/XEC-DN20SU	AC 100-240, DC24V input 12 points, Transistor output 8 points (Sink)
XBC/XEC-DN30SU	AC 100-240, DC24V input 18 points, Transistor output 12 points (Sink)
XBC/XEC-DN40SU	AC 100-240, DC24V input 24 points, Transistor output 16 points (Sink)
XBC/XEC-DN60SU	AC 100-240, DC24V input 36 points, Transistor output 24 points (Sink)
XBC/XEC-DP20SU	AC 100-240, DC24V input 12 points, Transistor output 8 points (Source)
XBC/XEC-DP30SU	AC 100-240, DC24V input 18 points, Transistor output 12 points (Source)
XBC/XEC-DP40SU	AC 100-240, DC24V input 24 points, Transistor output 16 points (Source)
XBC/XEC-DP60SU	AC 100-240, DC24V input 36 points, Transistor output 24 points (Source)

Block Type Unit (Economic)

Model	Specification
XBC/XEC-DR10E	AC 100-240V, 6 pts DC input, 4 pts relay ouput
XBC/XEC-DR14E	AC 100-240V, 8 pts DC input, 6 pts relay ouput
XBC/XEC-DR20E	AC 100-240V, 12 pts DC input, 8 pts relay ouput
XBC/XEC-DR30E	AC 100-240V, 18 pts DC input, 12 pts relay ouput
XBC/XEC-DN10E	AC 100-240V, 6 pts DC input, 4 pts Tr. output (Sink)
XBC/XEC-DN14E	AC 100-240V, 8 pts DC input, 6 pts Tr. output (Sink)
XBC/XEC-DN20E	AC 100-240V, 12 pts DC input, 8 pts Tr. output (Sink)
XBC/XEC-DN30E	AC 100-240V, 18 pts DC input, 12 pts Tr. output (Sink)
XBC/XEC-DP10E	AC 100-240V, 6 pts DC input, 4 pts Tr. output (Source)
XBC/XEC-DP14E	AC 100-240V, 8 pts DC input, 6 pts Tr. output (Source)
XBC/XEC-DP20E	AC 100-240V, 12 pts DC input, 8 pts Tr. output (Source)
XBC/XEC-DP30E	AC 100-240V, 18 pts DC input, 12 pts Tr. output (Source)

Modular Type Unit

Model	Specification
XBM/XEM-DN32H2	DC24V, 16 pts DC24V input, 16 pts TR output(Sink), 2 axes built-in positioning (XPM)
XBM/XEM-DN32HP	DC24V, 16 pts DC24V input, 16 pts TR output(Sink), 6 axes built-in positioning (XPM)
XBM/XEM-DP32H2	DC24V, 16 pts DC24V input, 16 pts TR output(Source), 2 axes built-in positioning (XPM)
XBM/XEM-DP32HP	DC24V, 16 pts DC24V input, 16 pts TR output(Source), 6 axes built-in positioning (XPM)
XBM-DR16S	AC 100-240V, DC24 input 8 pts, Tr. output 8 pts (Sink)
XBM-DN16S	AC 100-240V, DC24 input 8 pts, Tr. output 8 pts (Source)
XBM-DN32S	AC 100-240V, DC24 input 16 pts, Tr. output 16 pts (Source)

Loader Cable

Model	Specification
PMC-310S	Connection cable (PC to PLC), 9pin (PC)-6pin (PLC)
USB-301A	Connection cable (PC to PLC), USB

Expansion I / O Module

Model	Specification	Model	Specification
XBE-AC08A	8 pts AC110V input	XBE-TN08A	8 pts Tr. (Sink) output
XBE-DC08A	8 pts DC 24V input	XBE-TN16A	16 pts Tr. (Sink) output
XBE-DC16A	16 pts DC 12/24V input	XBE-TN32A	32 pts Tr. (Sink) output
XBE-DC16B	16 pts DC 24V input	XBE-TP08A	8 pts Tr. (Source) output
XBE-DC32A	32 pts DC 24V input	XBE-TP16A	16 pts Tr. (Source) output
XBE-RY08A	8 pts relay output	XBE-TP32A	32 pts Tr. (Source) output
XBE-RY08B	8 pts relay output	XBE-DR16A	8 pts DC24V input, 8 pts relay output
XBE-RY16A	16 pts relay output	XBE-DN32A	16 pts DC24V input, 16 pts TR output

Special Module

Model	Specification
XBF-AD04A	4ch analog input (Current/Voltage)
XBF-AD04C	4ch analog input (Current/Voltage, Resolution : 1/16000)
XBF-AH04A	2ch analog input (Current/Voltage)/2ch analog output (Current/Voltage)
XBF-DV04A	4ch analog output (Voltage)
XBF-DV04C	4ch analog input (Voltage, Resolution : 1/16000)
XBF-DC04A	4ch analog output (Current)
XBF-DC04C	4ch analog input (Current, Resolution : 1/16000)
XBF-RD04A	4ch RTD input
XBF-TC04S	4ch thermocouple input
XBF-TC04TT	Temperature controller, Thermocouple
XBF-TC04RT	Temperature controller, RTD
XBF-PD02A	Line drive 2axes
XBF-PN08B	EtherCAT positioning module, 8axesa
XBF-PN04B	Standard EtherCAT network, 4axis
XBF-AD08A	8Ch analog input (Current/Voltage)
XBF-HO02A	2ch high-speed counter input (Open collector)
XBF-HD02A	2ch high-speed counter input (Line drive)

Communication Module

Model	Specification
XBL-C41A	Cnet (RS-422/485), 1ch
XBL-C21A	Cnet (RS-232C), 1ch
XBL-EMTA	Fast Ethernet (100Mbps), 1ch
XBL-EIPT	Ethernet/IP, 2ch
XBL-EIMT	RAPIEnet, Twisted pair 2ch, 100Mbps
XBL-EIMF	RAPIEnet I/F, Max. 2km (Fiber 2ch.), 100Mbps
XBL-EIMH	RAPIEnet I/F (Twisted pair 1ch, Fiber 1ch.), 100Mbps
XBL-PMEC	Profibus-DP, Master, RS-485
XBL-PSEA	Profibus-DP, Slave, RS-485
XBL-DSEA	DeviceNet, Slave
XBL-RMEA	Rnet, Master
XBL-CMEA	CANopen (10, 20, 50, 100, 125, 250, 500, 800, 1000Kbps, Num of PDO : 32)
XBL-CSEA	CANopen (10, 20, 50, 100, 125, 250, 500, 800, 1000Kbps, Num of PDO : 64)

Option Module

Model	Specification
XBO-AD02A	Voltage/Current, Input 2ch
XBO-DA02A	Voltage/Current, Output 2ch
XBO-AH02A	Voltage/Current, Input 1ch, Voltage/Current, Output 1ch
XBO-TC02A	TC (Thermo couple), Input 2ch
XBO-RTCA	RTC (Real time clock), Battery
XBO-DC04A	DC 24V, Input 4 pts
XBO-TN04A	TR (Sink), Output 4 pts
XBO-RD01A	RTD (Resistance temperature detector), Input 1ch
XBO-M2MB	Memory

Connection Cable	XBF-PD02A	XBF-HO02A	XBF-HD02A	XBE-DC32A	XBE-TN32A	XBE-TP32S	XBM/XEM-DN16S	XBM-DN2S	XBM/XEM-H2,HP	XGB-UP	Cable Length
R40H/20HH-05S-XBM3							●	●			0.5m
R40H/20HH-10S-XBM3							●	●			1m
C40HH-05SB-XBI	●	●	●	●	●	●			●	●	0.5m
C40HH-10SB-XBI	●	●	●	●	●	●			●	●	1m
C40HH-15SB-XBI	●	●	●	●	●	●			●	●	1.5m
C40HH-20SB-XBI	●	●	●	●	●	●			●	●	2m
C40HH-30SB-XBI	●	●	●	●	●	●			●	●	3m
C40HH-05SB-XBE					●	●					0.5m
C40HH-10SB-XBE					●	●					1m
C40HH-15SB-XBE					●	●					1.5m
C40HH-20SB-XBE					●	●					2m
C40HH-30SB-XBE					●	●					3m
C40HH-05SB-XBE					●						0.5m
C40HH-10SB-XBE					●						1m
C40HH-15SB-XBE					●						1.5m
C40HH-20SB-XBE					●						2m
C40HH-30SB-XBE					●						3m